



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JHU/APL Docket No. 1414-SPL

Examiner: G. R. Strecker

Serial No.: 09/813,767

Group Art Unit: 2862

Filed: March 21, 2001

Inventor: John C. Murphy

For: APPARATUS AND METHODS USING MECHANICAL RESONATORS TO
ENHANCE SENSITIVITY IN LORENTZ FORCE MAGNETOMETERS

AMENDMENT

Assistant Commissioner for Patents
Washington, D. C. 20231

I hereby certify that this correspondence is being
deposited with the United States Postal Service
with sufficient postage as first class mail in an
envelope addressed to Assistant Commissioner
for Patents, Washington, DC 20231
on January 10, 2003.

Francis A. Cochr 1/10/03

Signature

Date

Dear Sir:

In response to the Office action mailed July 10, 2002, please amend the above-referenced
application as follows:

In the Specification: (See enclosure for "clean version".)

Please amend the specification as follows:

Page 3, line 13, delete "aperature" and substitute therefor -- aperture --.

Page 8, line 10, delete "place" and substitute therefor -- placed --.

Page 9, line 23, delete "44" and substitute therefor -- 46 --.

In the Claims:

Please amend claims 1, 3, 4, 6, 10, 11, 12, 18 19, 22, 24, and 25 as follows (see enclosure
for "clean version"):

1. (once amended) A magnetometer comprising:
an electrically conducting string, the string receiving a current; and
means for supporting the string in tension at two locations, the string being capable of vi-
brating in any direction orthogonal to its axis;
the magnetometer being placed in a magnetic field to be detected, the magnetic field be-
ing perpendicular to the direction of the current and producing a Lorentz Force perpen-

#4/c
Brown
1-21-03

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